かつおとまぐろ

INTER-AMERICAN TROPICAL TUNA COMMISSION
SCRIPPS INSTITUTION OF OCEANOGRAPHY
LA JOLLA, CALIFORNIA

1961

KATSUO TO MAGURO ★ SKIPJACK & TUNAS

かつおとまぐろ

1961 EDITION

FEDERATION OF JAPAN TUNA FISHERMEN'S CO-OPERATIVE ASSOCIATIONS

■

JAPAN TUNA FISHERIES FEDERATION

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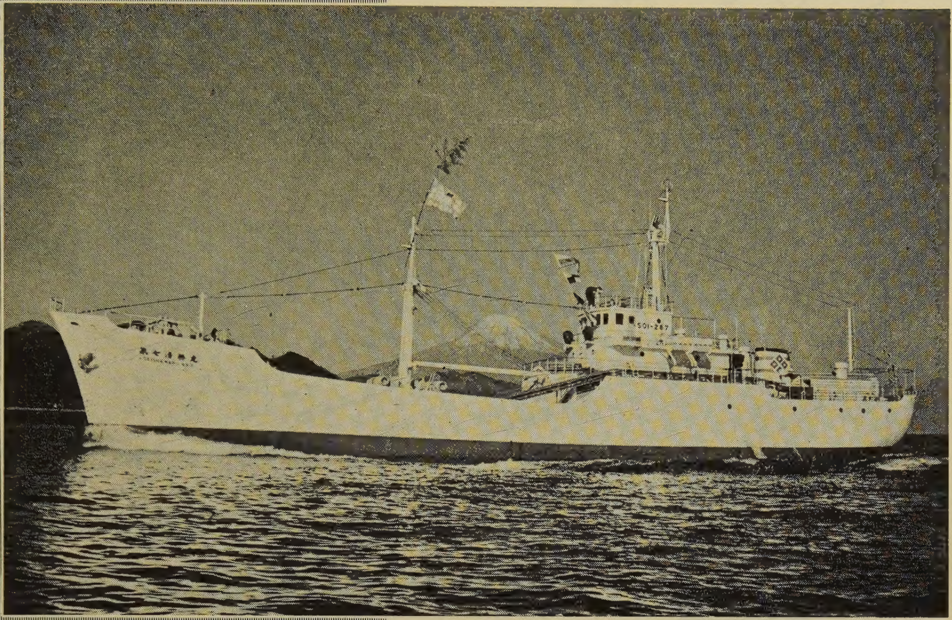
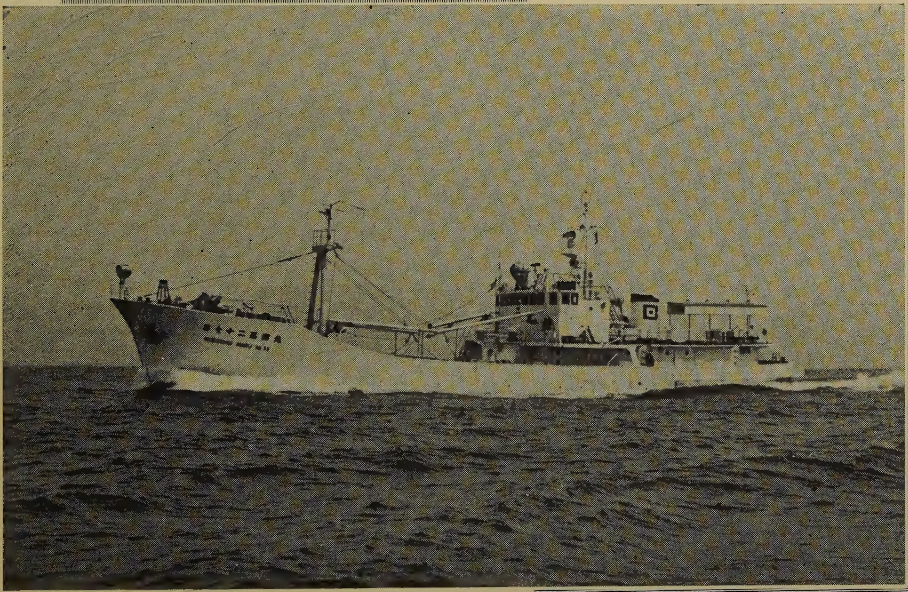


LONG LINE FISHING VESSEL



POLE AND LINE FISHING VESSEL

Figure 1.

Fishing Grounds of Skipjack and Tunas.

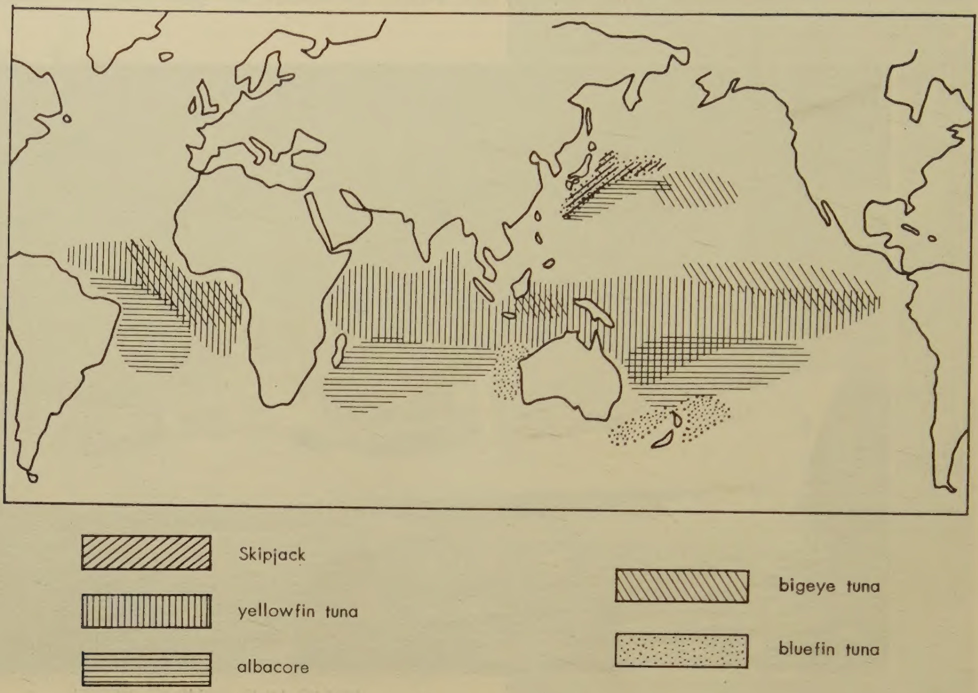
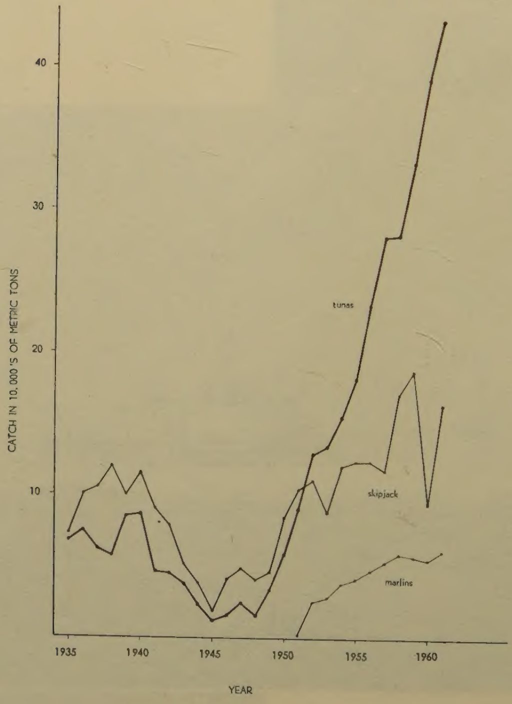


Figure 2.

Yearly Total Catch of Skipjack and Tunas.



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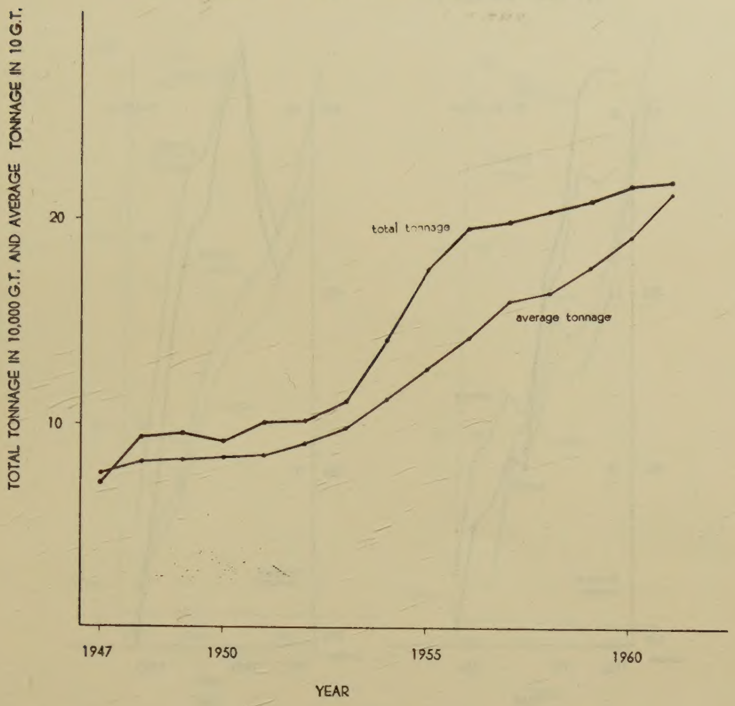

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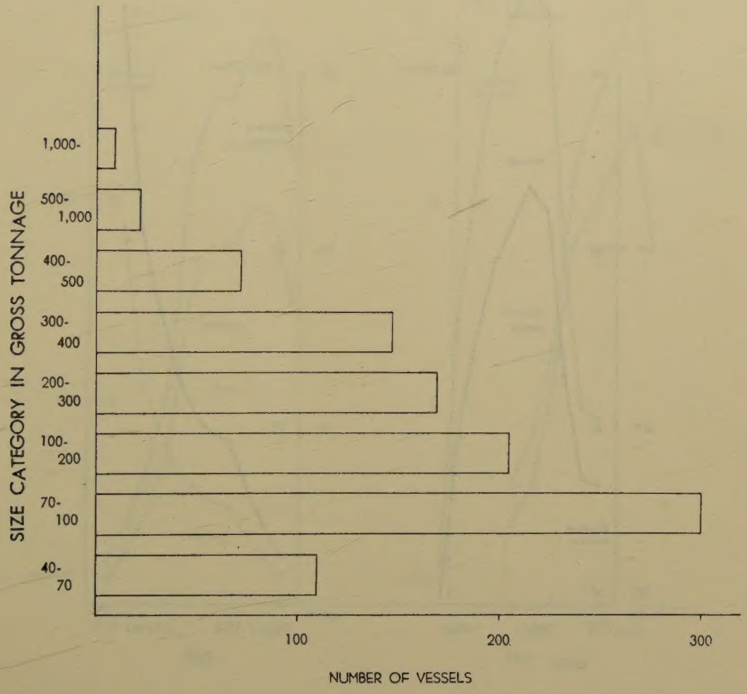

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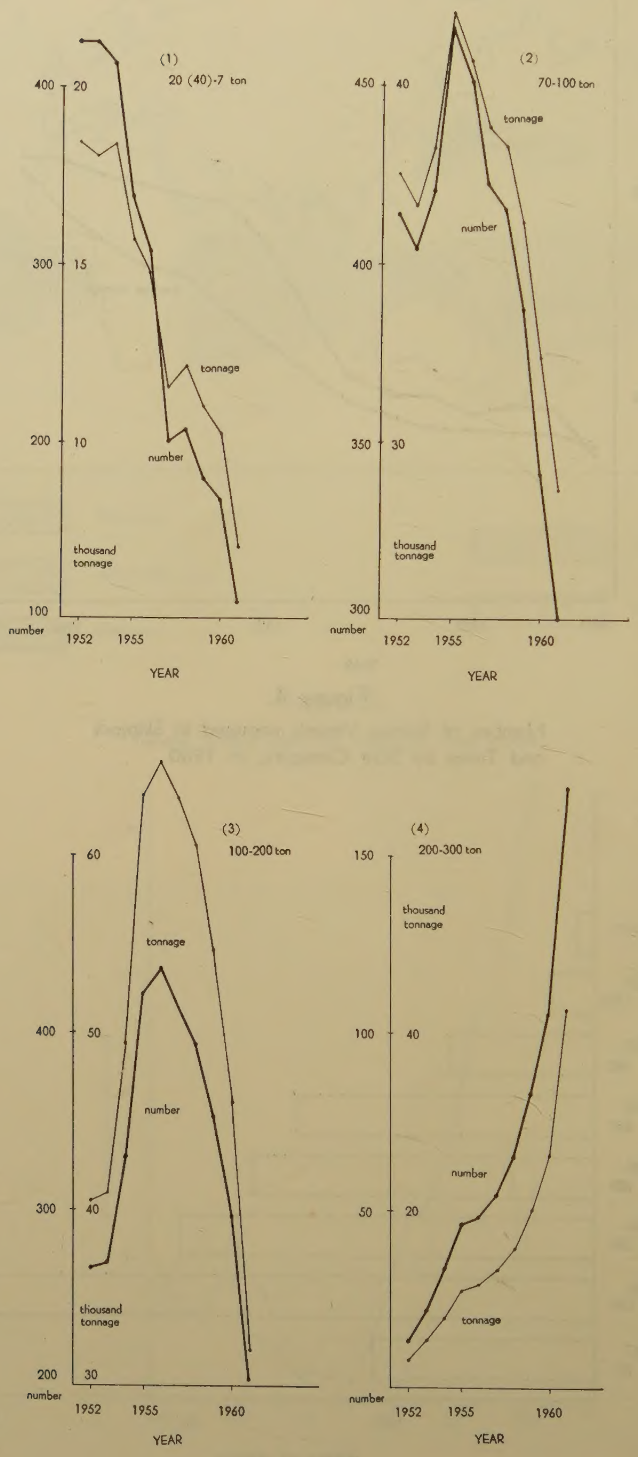
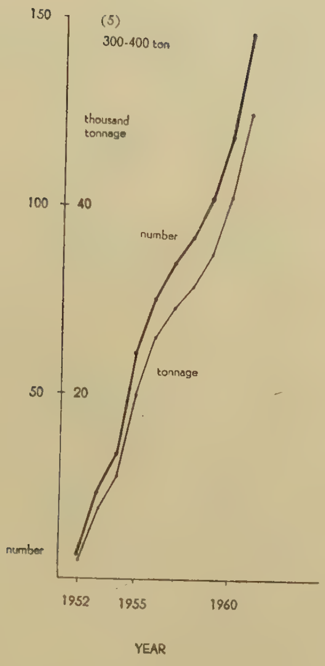
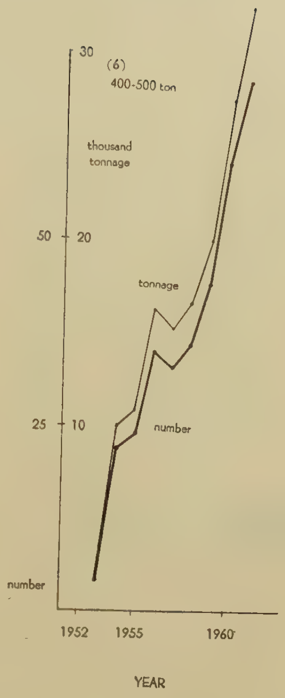
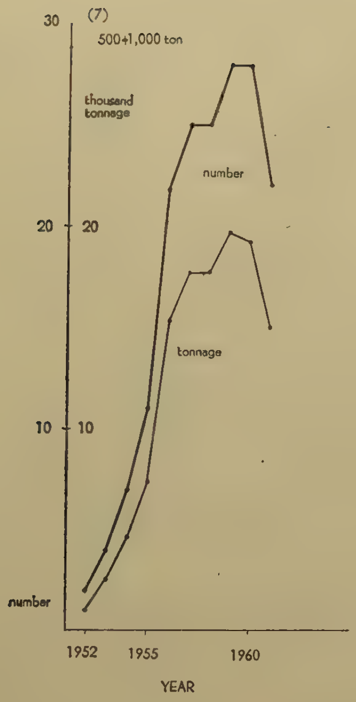




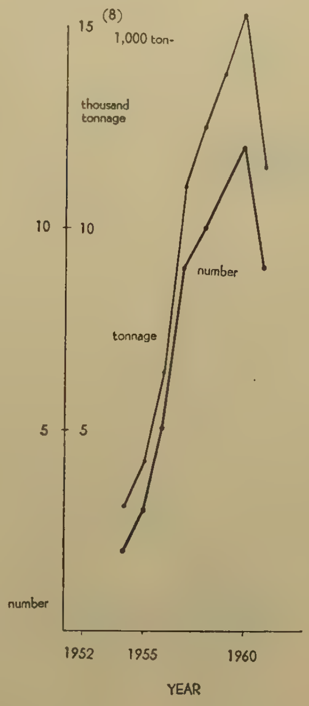
150
(5)
300-400 ton
thousand
tonnage
100
40
number
50
20
tonnage
number
1952
1955
1960
YEAR



30
(6)
400-500 ton
thousand
tonnage
50
20
tonnage
25
10
number
number
1952
1955
1960
YEAR



30
(7)
500+1,000 ton
thousand
tonnage
number
20
20
tonnage
10
10
number
1952
1955
1960
YEAR



15
(8)
1,000 ton-
thousand
tonnage
10
10
number
tonnage
5
5
number
1952
1955
1960
YEAR

Figure 6.
Monthly Catch by Tunas Long Line Fisheries and Skipjack Pole and Line Fisheries in 1961.

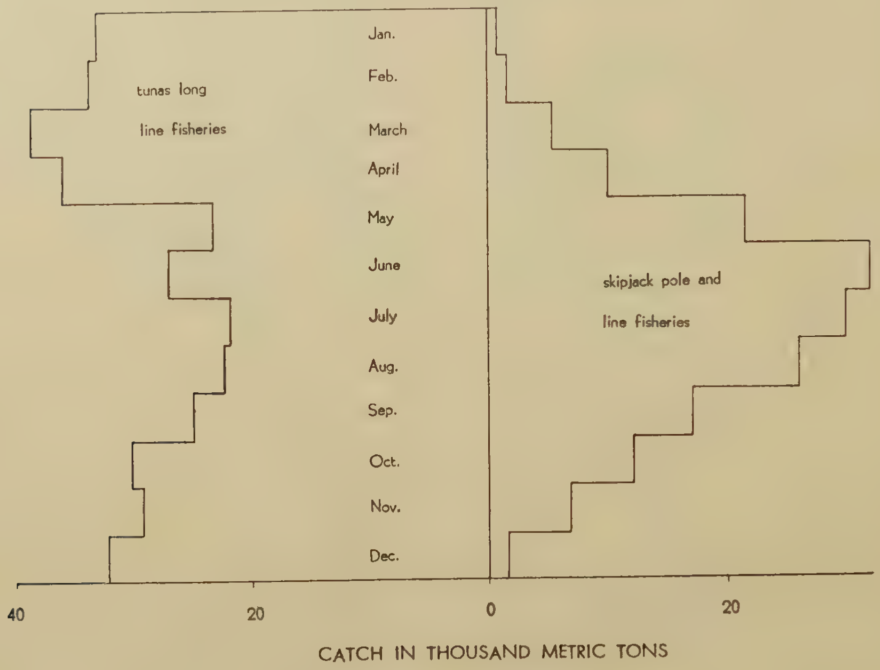
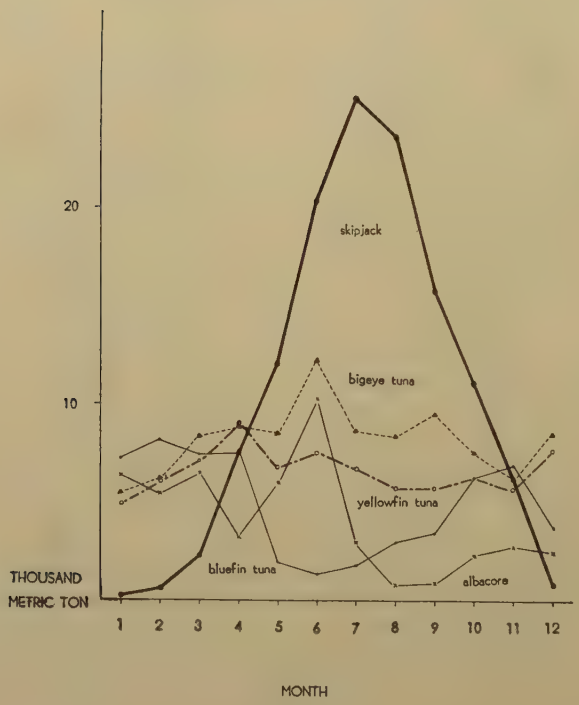


Figure 7.
Monthly Catch by Species in 1961.



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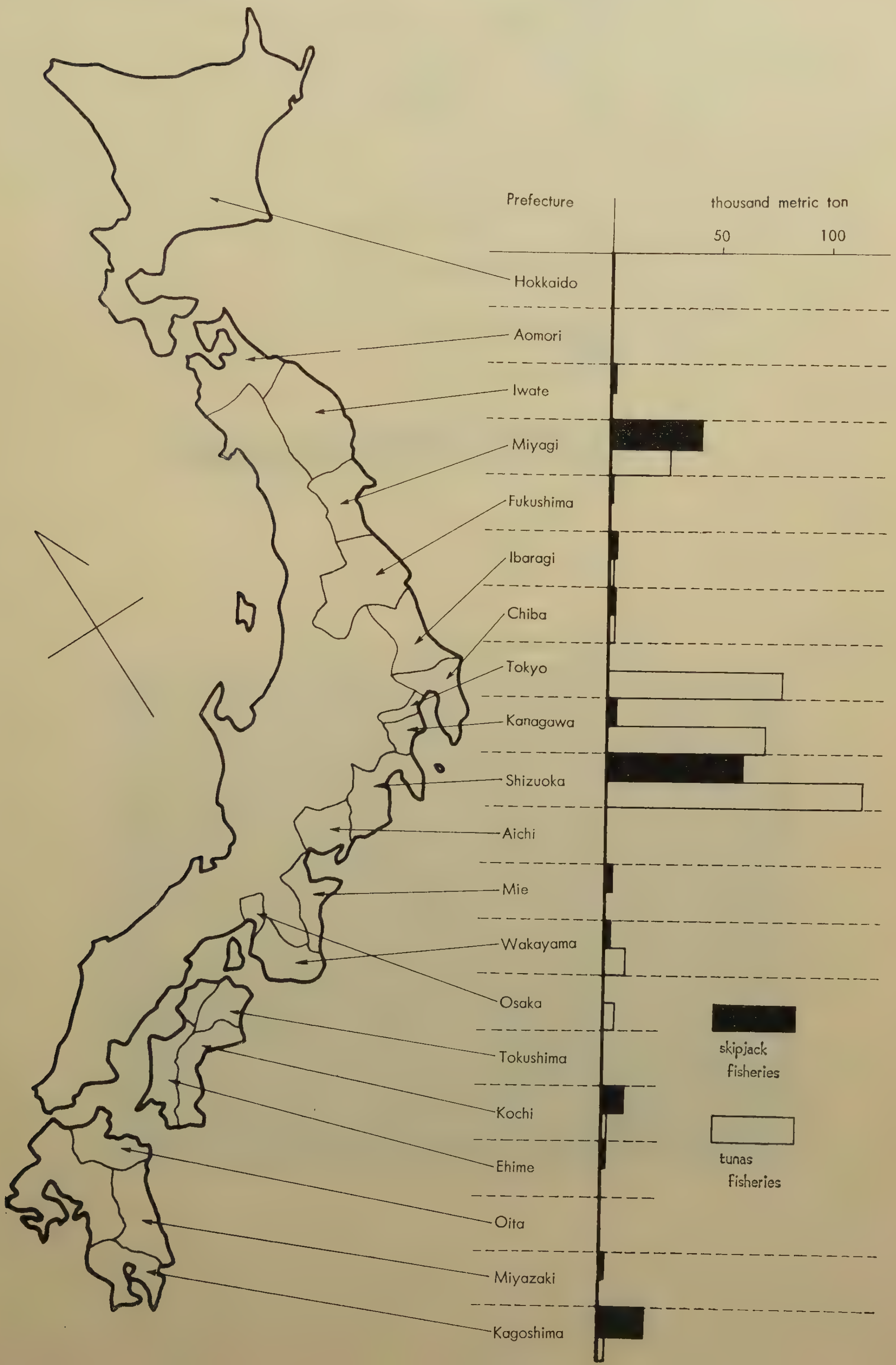


Figure 9.

Catch by Species in 1961.

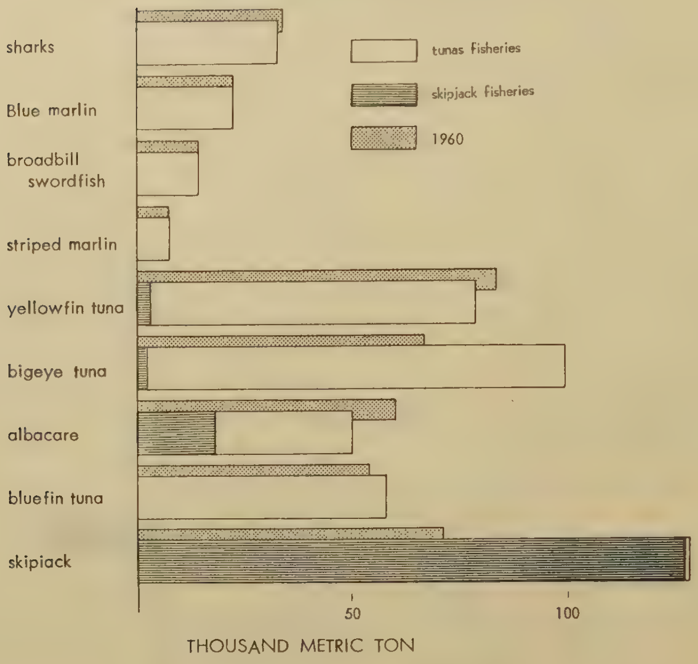
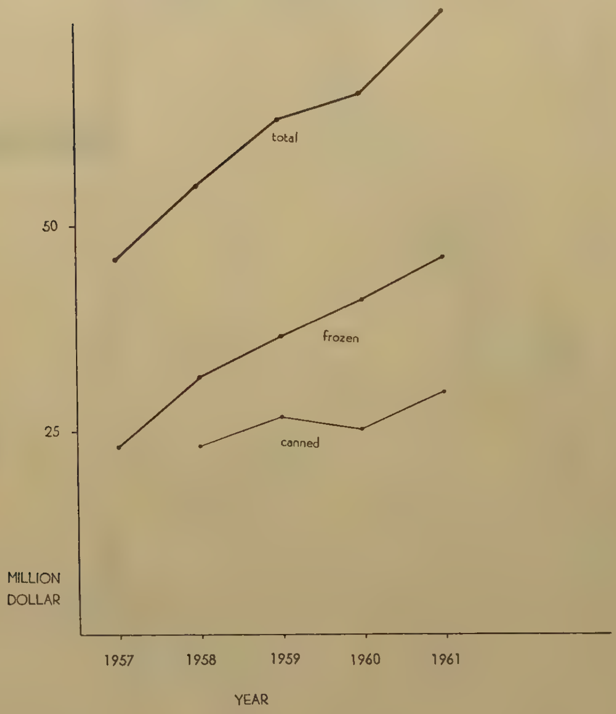


Figure 10.

Yearly amount of Skipjack and Tunas Exports



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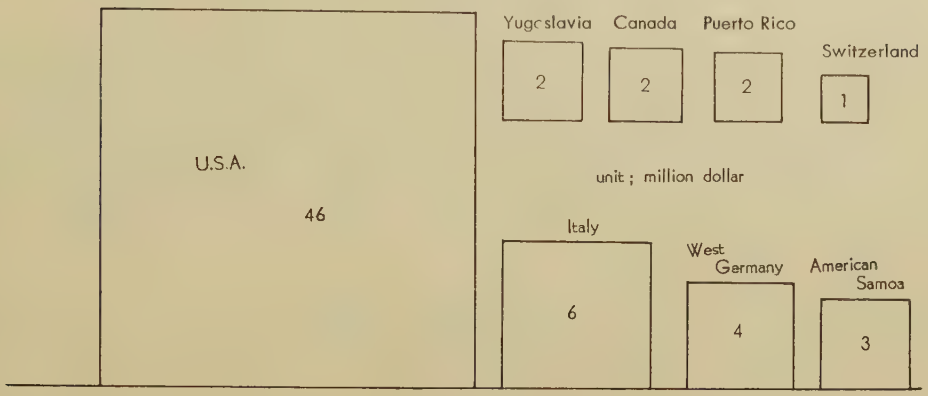


Table 1.

Number and Total Tonnage of Vessels engaged in Middle type and Pelagic Skipjack and Tunas Fisheries by Size Category, 1952—1961.

Year	20—(40)—70		70—100		100—200		200—300	
	No.	G. T.	No.	G. T.	No.	G. T.	No.	G. T.
1952	426	18, 429	414	37, 501	268	40, 540	13	3, 102
1953	426	18, 062	404	36, 601	270	40, 926	22	5, 258
1954	414	18, 479	421	38, 256	330	49, 426	33	7, 836
1955	338	15, 788	467	42, 116	422	63, 439	46	11, 171
1956	307	14, 816	451	40, 752	436	65, 601	48	11, 626
1957	200	11, 543	422	38, 815	415	63, 276	54	13, 113
1958	207	12, 143	415	38, 304	393	60, 514	65	15, 770
1959	179	11, 048	387	36, 135	353	54, 650	83	20, 190
1960	167	10, 287	341	32, 401	297	46, 224	105	25, 925
1961	109	7, 031	300	28, 615	204	32, 056	169	42, 765

Note ; (1) Survey by Second Ocean Section, Fisheries Agency.

(2) These vessels are licenced ones, more than 20 gross tonnage 1952-1956 and more than 40 gross tonnage 1957-1961.

300—400		400—500		500—1, 000		1, 000—		Total	
No.	G. T.	No.	G. T.	No.	G. T.	No.	G. T.	No.	G. T.
7	2, 186			2	1, 065			1, 130	102, 825
24	7, 749	4	1, 763	4	2, 583			1, 154	112, 944
34	11, 106	22	10, 001	7	4, 681	2	3, 105	1, 263	142, 892
61	20, 797	24	10, 989	11	7, 477	3	4, 245	1, 372	176, 026
76	26, 246	35	16, 263	22	15, 437	5	6, 447	1, 380	197, 191
85	29, 333	33	15, 314	25	17, 792	9	11, 038	1, 243	200, 227
92	31, 655	36	16, 629	25	17, 862	10	12, 541	1, 243	205, 420
102	35, 189	44	20, 175	28	19, 717	11	13, 825	1, 187	210, 932
119	41, 176	60	27, 576	28	19, 331	12	15, 353	1, 129	218, 278
146	50, 717	71	32, 437	22	15, 020	9	11, 544	1, 030	220, 188

Table 2.

Number and Total tonnage of Japanese Fishing Vessels engaged in skipjack and Tunas Fisheries, 1947—1961.

year	No. of Vessels	Total Tonnage (G. T)	Average Tonnage of Vessels (G. T)
1947	956	72, 864	76
1948	1, 146	94, 232	82
1949	1, 163	96, 426	83
1950	1, 100	92, 158	84
1951	1, 187	101, 471	85
1952	1, 130	102, 826	91
1953	1, 154	112, 945	98
1954	1, 263	142, 893	113
1955	1, 372	176, 026	128
1956	1, 380	197, 191	143
1957	1, 243	200, 228	161
1958	1, 243	205, 420	165
1959	1, 187	210, 932	178
1960	1, 129	218, 279	193
1961	1, 030	220, 189	214

Note ; (1) Survey by Second Ocean Section, Fisheries Agency.

(2) These vessels are the licenced ones more than 20 gross tonnage 1947-1956 and more than 40 gross tonnage 1957-1961.

(3) Not include the vessels combinded with other fisheries, converted from the Salmon and Trout Factory ship Type Fisheries, and the Tuna Factory ship Type Fisheries.

Table 3.

New Built Vessels in Skipjack and Tunas Fisheries.
(Jan.-Dec. in 1961)

Prefecture	Wood		Steel		Total	
	No.	G. T.	No.	G. T.	No.	G. T.
Hokkaido			2	336. 71	2	336. 71
Aomori			2	339. 86	2	339. 86
Iwate			4	538. 73	4	538. 73
Miyagi	1	99. 89	24	6, 615. 62	25	6, 715. 51
Fukushima	1	99. 99	4	858. 31	5	958. 30
Ibaragi	1	99. 93	9	1, 935. 25	10	2, 035. 18
Chiba			2	341. 35	2	341. 35
Tokyo			19	7, 263. 65	19	7, 263. 65
Kanagawa			9	3, 225. 87	9	3, 225. 87
Shizuoka			27	9, 322. 01	27	9, 322. 01
Mie	1	82. 02	8	2, 463. 64	9	2, 545. 66
Wakayama			1	99. 40	1	99. 40
Hiroshima			1	359. 12	1	359. 12
Kochi	2	199. 75	19	5, 194. 99	21	5, 394. 74
Kagoshima	6	390. 24	2	388. 02	8	778. 26
Total	12	971. 82	133	39, 282. 53	145	40, 254. 35

Note ; (1) Survey by Fishing Boat Section, Fisheries Agency.
(2) These vessels are more than 40 gross tonnage.

Table 4.

Yearly Total Catch of Skipjack and Tunas by type of Fishing Operation, 1952—1961.

Year	Skipjack pole and line	Tuna long line	Factory ship type	Based at Foreign ports	
				Samoa	Santo
1952	144, 544	110, 089	6, 711		
1953	118, 410	128, 625	8, 130		
1954	139, 973	148, 658	14, 120		
1955	145, 241	176, 378	13, 561	7, 244	
1956	163, 219	213, 229	11, 180	7, 094	
1957	168, 746	238, 680	14, 105	8, 666	150
1958	184, 527	258, 830	14, 384	11, 540	4, 309
1959	182, 782	292, 061	20, 688	12, 054	3, 889
1960	109, 577	322, 798	24, 002	10, 883	4, 026
1961	167, 153	351, 059	33, 607	10, 631	4, 117

Note ; (1) Survey by Statistics and Survey Division, Ministry of Agriculture and Forestry. But Factory ship type, Based at Foreign Ports and Operated in the Atlantic Ocean are from Survey by Second Ocean Section, Fisheries Agency.

(2) All of the vessels engaged in the Skipjack pole and line fisheries and Tunas long line fisheries are not under the lincence system

(Unit : M/T)

Operated in the Atlanic Ocean			Others	Grand Total
Europe	Africa	Central and South America		
				261, 344
				255, 165
				302, 751
				342, 424
				394, 722
10, 285			5, 600	446, 232
11, 738		19, 012	233	504, 573
24, 691	2, 724	22, 480	1, 623	562, 992
34, 058	14, 722	24, 165	1, 506	545, 737
26, 179	35, 300	20, 441	2, 883	651, 370

Table 5.

Yearly Catch of Skipjack and Tunps by Type of Fishing Operation and by Fish Species. 1957—1961.

(1) Skipjack pole and Line Fisheries and Tunas Long Line Fisheries. (Unit : M/T)

	1957		1958		1959		1960		1961		Catch per Year	
	Quantity	%	Quantity	%	Quantity	%	Quantity	%	Quantity	%	Quantity	%
Skipjack	92, 947	22. 8	132, 495	29. 9	146, 657	30. 9	71, 695	16. 6	128, 015	24. 7	114, 361	25. 1
Bluefin tuna	15, 270	3. 7	14, 759	3. 3	36, 766	7. 7	53, 820	12. 5	58, 535	11. 3	35, 830	7. 9
Albacore	67, 943	16. 7	46, 197	10. 4	46, 901	9. 9	60, 640	14. 0	50, 451	9. 7	54, 426	11. 9
Bigeye tuna	57, 406	14. 1	69, 934	15. 8	70, 530	14. 9	66, 972	15. 5	99, 061	19. 1	72, 780	15. 9
Yellowfin tuna	77, 584	19. 1	72, 411	16. 3	71, 366	15. 0	83, 057	19. 2	79, 511	15. 3	76, 785	16. 9
Striped marlin	5, 783	1. 4	8, 444	1. 9	8, 728	1. 8	7, 397	1. 7	7, 430	1. 4	7, 556	1. 7
Broad-bill Sword fish	10, 103	2. 5	12, 794	2. 9	13, 157	2. 8	13, 919	3. 2	14, 580	2. 8	12, 910	2. 8
Blue and Black marlin	28, 046	6. 9	27, 018	6. 1	24, 356	5. 1	22, 059	5. 1	22, 886	4. 4	24, 873	5. 4
Sharks	28, 234	6. 9	29, 957	6. 8	30, 235	6. 4	34, 187	7. 9	33, 586	6. 5	31, 239	6. 8
Others	24, 110	5. 9	29, 348	6. 6	26, 147	5. 5	18, 639	4. 3	24, 158	4. 8	24, 482	5. 6
Total	407, 426	100	443, 357	100	474, 843	100	432, 375	100	518, 213	100	455, 242	100

(2) Skipjack Pole and Line Fisheries. (Unit : M/T)

	1957		1958		1959		1960		1961		Catch per Year	
	Quantity	%	Quantity	%	Quantity	%	Quantiry	%	Quantity	%	Quantity	%
Skipjack	92, 156	54. 6	131, 441	71. 2	145, 447	79. 6	70, 428	64. 3	127, 011	75. 9	113, 297	69. 7
Bluefine	1, 406	0. 8	1, 952	1. 1	435	0. 2	302	0. 3	352	0. 2	889	0. 5
Albacore	49, 500	29. 4	22, 175	12. 0	14, 252	7. 8	25, 156	23. 0	18, 636	11. 1	25, 944	16. 0
Bigeye tuna	5, 198	3. 1	4, 196	2. 3	1, 729	1. 0	1, 524	1. 4	1, 837	1. 1	2, 897	1. 8
Yellowfin tuna	1, 669	1. 0	2, 934	1. 6	4, 119	2. 3	1, 872	1. 7	3, 259	2. 0	2, 771	1. 7
Striped marlin	23	0	16	0	18	0	9	0	16	0	16	0
Broad-bill Sword fish	45	0	21	0	21	0	13	0	14	0	23	0
Blue and Black marlin	56	0	5	0	8	0	4	0	4	0	15	0
Sharks	98	0. 1	72	0	62	0	54	0	34	0	64	0
Others	18, 595	11. 0	21, 715	11. 8	16, 691	9. 1	10, 215	9. 3	15, 987	9. 6	16, 641	10. 2
Total	168, 746	100	184, 527	100	182, 782	100	109, 577	100	167, 153	100	162, 557	100

(3) Tuna Long Line Fisheries.

(Unit : M/T)

	1957		1958		1959		1960		1961		Catch per Year	
	Quantity	%	Quantity	%	Quantity	%	Quantity	%	Quantity	%	Quantity	%
Skipjack	971	0. 3	1, 054	0. 4	1, 210	0. 4	1, 267	0. 4	1, 004	0. 3	1, 065	0. 3
Bluefin tuna	13, 864	5. 8	12, 807	4. 9	36, 331	12. 4	53, 518	16. 6	58, 183	16. 6	34, 941	12. 0
Albacore	18, 443	7. 7	24, 022	9. 3	32, 649	11. 2	35, 484	11. 0	31, 815	9. 1	28, 483	9. 7
Bigeye tuna	52, 208	21. 9	65, 738	25. 4	68, 801	23. 6	65, 448	20. 3	97, 223	27. 7	69, 884	23. 9
Yellowfin tuna	75, 915	31. 9	69, 477	26. 9	67, 247	23. 0	81, 185	25. 1	76, 252	21. 7	74, 015	25. 3
Striped marlin	5, 760	2. 4	8, 428	3. 3	8, 710	3. 0	7, 388	2. 3	7, 413	2. 1	7, 540	2. 6
Broad-bill Sword fish	10, 058	4. 2	12, 773	4. 9	13, 136	4. 5	13, 896	4. 3	14, 566	4. 1	12, 886	4. 4
Blue and Black marlin	27, 990	11. 7	27, 013	10. 4	24, 348	8. 3	22, 055	6. 8	22, 881	6. 5	31, 718	10. 6
Sharks	28, 136	11. 8	29, 885	11. 6	30, 173	10. 4	34, 133	10. 6	33, 552	9. 6	31, 176	10. 7
Others	5, 515	2. 3	7, 633	2. 9	9, 456	3. 2	8, 424	2. 6	8, 164	2. 3	7, 838	2. 6
Total	238, 680	100	258, 830	100	292, 061	100	322, 798	100	351, 059	100	292, 686	100

Note ; (1) Survey by Statistics and Survey Division, Ministry of Agriclture and Forestry.

(2) Not include Factory ship type, Based at foreign ports and Operated in the Atlantic Ocean.

(3) Include the catch by the vessels, less than 40 gross tonnage which are not necessary to get the fishing licence.

(4) In compliance with the change of the English name, we revised BLACK MARLIN to BLUE MARLIN and WHITE MARLIN to BLACK MARLIN.

Table 6.

Monthly Catch in Skipjack and Tunas Fisheries by Species, 1961.

(1) Total

	Skipjack	Bluefin tuna	Albacore	Bigeye tuna	Yellowfin tuna	Striped marlin
Jan.	242, 465	7, 260, 452	6, 444, 690	5, 653, 169	4, 897, 579	557, 448
Feb.	527, 503	8, 107, 233	5, 575, 701	6, 206, 138	6, 274, 616	416, 404
March	2, 203, 178	7, 457, 801	6, 560, 346	8, 431, 861	7, 131, 804	470, 818
April	7, 708, 155	7, 548, 854	3, 229, 826	8, 873, 022	9, 046, 002	670, 553
May	14, 172, 496	1, 958, 195	6, 045, 634	8, 543, 740	6, 769, 515	562, 118
June	20, 360, 457	1, 291, 454	10, 200, 821	12, 387, 016	7, 511, 650	591, 196
July	25, 645, 336	1, 719, 936	3, 024, 454	8, 610, 727	6, 744, 697	393, 849
Aug.	23, 610, 904	2, 957, 990	845, 724	8, 469, 257	5, 747, 496	425, 643
Sep.	15, 708, 833	3, 433, 121	961, 978	9, 557, 544	5, 790, 558	682, 949
Oct.	10, 910, 305	6, 187, 634	2, 375, 850	7, 509, 507	6, 269, 834	741, 701
Nov.	6, 144, 106	6, 853, 131	2, 720, 473	6, 287, 531	5, 669, 432	813, 072
Dec.	782, 102	3, 760, 104	2, 466, 256	8, 532, 284	7, 658, 597	1, 084, 523
Total	128, 015, 840	58, 535, 905	50, 451, 753	99, 061, 796	79, 511, 780	7, 430, 274

Note ; (1) Survey by Statistics and Survey Division, Ministry of Agriculture and Forestry.

(2) Not include the catch Factory ship type, Based at foreign ports and Operated in the Atlantic Ocean.

(Unit : kg)

Broadbill swordfish	Blue and Black marlin	Great blue shark	Salmon shark	Other sharks	Others	Total
2, 838, 792	1, 552, 563	2, 258, 239	117, 112	756, 807	1, 172, 304	33, 751, 620
1, 913, 533	1, 656, 757	1, 978, 740	85, 655	639, 139	1, 799, 879	35, 181, 298
1, 698, 817	2, 115, 140	3, 006, 315	236, 734	855, 370	3, 983, 896	44, 152, 080
1, 091, 827	2, 051, 268	2, 053, 138	894, 341	735, 773	2, 180, 847	46, 103, 606
548, 142	1, 822, 747	1, 015, 697	700, 557	711, 137	2, 136, 424	44, 986, 402
514, 941	2, 258, 081	1, 073, 110	497, 117	754, 009	1, 681, 006	59, 120, 858
507, 271	1, 806, 418	1, 042, 033	174, 645	551, 434	1, 568, 623	51, 789, 423
307, 969	1, 463, 172	961, 795	630, 744	436, 872	2, 512, 723	48, 370, 289
372, 395	1, 434, 100	847, 097	880, 129	497, 851	1, 737, 816	41, 904, 371
1, 237, 207	2, 058, 732	2, 240, 311	256, 799	828, 963	1, 838, 083	42, 454, 926
1, 611, 937	2, 098, 131	1, 554, 730	173, 979	770, 413	1, 366, 485	36, 063, 420
1, 938, 005	2, 568, 909	2, 322, 099	38, 465	1, 009, 463	2, 174, 059	34, 334, 866
14, 580, 836	22, 886, 018	20, 353, 304	4, 686, 277	8, 547, 231	24, 152, 145	518, 213, 159

(3) Include the catch by the vessels, less than 40 gross tonnage which are necessary to get the fishing licence.

(4) Monthly catch are counted on the month landed.

(2) Skipjack pole and line fisheries.

	Skipjack	Bluefin tuna	Albacore	Bigeye tuna	Yellowfin tuna	Striped marlin
Jan.	164, 031	1, 645	37, 529	612	89, 747	86
Feb.	449, 915	626	14, 490	3, 497	140, 508	37
March	2, 097, 404	5, 435	113, 377	13, 006	257, 582	2, 405
April	7, 580, 017	20, 220	943, 991	12, 518	253, 732	1, 900
May	14, 011, 296	43, 935	5, 279, 321	341, 273	605, 330	1, 725
Jnne	20, 225, 533	93, 971	9, 611, 522	1, 007, 898	556, 428	1, 940
July	25, 563, 145	24, 940	2, 533, 472	360, 611	451, 858	2, 780
Aug.	23, 547, 579	87, 975	54, 645	25, 598	292, 487	1, 546
Sep.	15, 662, 626	28, 723	24, 462	7, 228	155, 640	1, 850
Oct.	10, 876, 248	17, 053	16, 736	6, 949	126, 026	175
Nov.	6, 112, 325	12, 717	6, 341	34, 192	128, 203	1, 820
Dec.	721, 595	15, 429	187	24, 416	201, 490	254
Total	127, 011, 714	352, 669	18, 636, 073	1, 837, 798	3, 259, 031	16, 518

(3) Tuna long line fisheries.

Jan.	78, 434	7, 258, 807	6, 407, 161	5, 652, 557	4, 807, 832	557, 362
Feb.	77, 588	8, 106, 607	5, 561, 211	6, 202, 641	6, 134, 108	416, 367
March	105, 774	7, 452, 366	6, 446, 969	8, 418, 855	6, 874, 222	468, 413
Apri	128, 138	7, 528, 634	2, 285, 835	8, 860, 504	8, 792, 270	688, 653
May	161, 200	1, 914, 260	766, 313	8, 202, 467	6, 164, 185	560, 393
June	134, 924	1, 197, 483	589, 299	11, 379, 118	6, 955, 222	589, 256
July	82, 191	1, 694, 996	490, 982	8, 250, 116	6, 292, 839	391, 069
Aug.	63, 325	2, 870, 015	791, 079	8, 443, 659	5, 455, 009	424, 097
Sep.	46, 207	3, 404, 398	937, 516	9, 550, 316	5, 634, 918	681, 099
Oct.	34, 057	6, 170, 581	2, 359, 114	7, 502, 558	6, 143, 808	741, 526
Nov.	31, 781	6, 840, 414	2, 714, 132	6, 253, 339	5, 541, 229	811, 252
Dec.	60, 507	3, 744, 675	2, 466, 069	8, 507, 868	7, 457, 107	1, 084, 269
Total	1, 004, 126	58, 183, 236	31, 815, 680	97, 223, 998	76, 252, 749	7, 413, 756

(Unit : kg)

Broadbill swordfish	Blue and Black marlin	Great blue shark	Salmon shark	Other sharks	Others	Total
30		1, 823		1, 062	475, 979	772, 544
623		524		2, 460	1, 142, 121	1, 754, 801
467		4, 296		1, 194	3, 100, 942	5, 596, 108
17	208	4, 765		816	1, 391, 868	10, 210, 052
209		1, 135		2, 090	1, 398, 642	21, 684, 956
2, 426	139	879		2, 051	975, 042	32, 477, 829
2, 974	1, 035	321	514	3, 118	1, 203, 128	30, 147, 896
2, 035	1, 682	283		1, 007	2, 155, 122	26, 169, 959
4, 901	1, 018	650	10	1, 320	1, 242, 723	17, 131, 151
284		1, 383		200	1, 167, 771	12, 212, 825
86		297		932	751, 348	7, 048, 261
		582		362	983, 281	1, 947, 596
14, 052	4, 082	16, 938	524	16, 612	15, 987, 967	167, 153, 978

(Unit : kg)

2, 838, 762	1, 552, 563	2, 256, 416	117, 112	755, 745	696, 325	32, 979, 076
1, 912, 910	1, 656, 757	1, 978, 216	85, 655	636, 679	657, 758	33, 426, 497
1, 698, 350	2, 115, 140	3, 002, 019	236, 734	854, 176	882, 954	38, 555, 972
1, 091, 810	2, 051, 060	2, 048, 373	894, 341	734, 957	788, 979	35, 893, 554
547, 933	1, 822, 747	1, 014, 562	700, 557	709, 047	737, 782	23, 301, 446
512, 515	2, 257, 942	1, 072, 231	497, 117	751, 958	705, 964	26, 643, 029
504, 297	1, 805, 383	1, 041, 712	174, 131	548, 316	365, 495	21, 641, 527
305, 934	1, 461, 490	961, 512	630, 744	435, 865	357, 601	22, 200, 330
367, 494	1, 433, 082	846, 447	880, 119	496, 531	495, 093	24, 773, 220
1, 236, 923	2, 058, 732	2, 238, 928	256, 799	828, 763	670, 312	30, 242, 101
1, 611, 851	2, 098, 131	1, 554, 433	173, 979	769, 481	615, 137	29, 015, 159
1, 938, 005	2, 568, 909	2, 321, 517	38, 465	1, 009, 101	1, 190, 778	32, 387, 270
14, 566, 784	22, 881, 936	20, 336, 366	4, 685, 753	8, 530, 619	8, 164, 178	351, 059, 181

Table 7.

Catch by Species and Prefecture in 1961.

(1) Skipjack Pole and Line Fisheries.

	Skipjack	Bluefin tuna	Albacore	Bigeye tuna	Yellowfin tuna	Striped marlin
Iwate	2, 815, 190		18		102	
Miyagi	41, 615, 115	3, 255	1, 041, 131	130, 308	99, 459	998
Fukushima	1, 313, 613	1, 569	19, 857	9, 796	1, 263	172
Ibaragi	3, 255, 886		419, 604	61, 302	11, 054	
Chiba	2, 793, 408	118	94, 860	8, 211	10, 741	406
Tokyo	51, 857				148	
Kanagawa	2, 088, 292		845, 886	65, 807	14, 654	3, 124
Shizuoka	40, 332, 773	33, 992	15, 935, 064	1, 561, 500	2, 938, 519	7, 592
Mie	3, 718, 099	12, 551	11, 656	189	14, 091	1, 485
Wakayama	1, 481, 252	5, 936	17, 422		813	
Tokushima	350, 619	26, 888	901	248	3, 001	
Kochi	4, 531, 576	258, 779	75, 822	396	116, 451	2, 613
Ehime	1, 537, 876	8, 988	173, 852			
Oita						
Miyazaki	890, 957	531			48, 455	
Fukuoka						
Nagasaki	9, 392					
Kumamoto	4, 683	62		41		
Kagoshima	20, 221, 126				280	128
Total	127, 011, 714	352, 669	18, 636, 073	1, 837, 798	3, 259, 031	16, 518

Note; (1) Survey by Statistics and Survey Division, Ministry of Agriculture and Forestry.

(Unit : kg)

Broadbill swordfish	Blue and Black marlin	Great blue shark	Salmon shark	Other sharks	Others	Total
					6, 267	2, 821, 577
1, 632	3, 102	498	524	140	371, 722	43, 267, 884
					64, 594	1, 400, 864
					12, 024	3, 759, 870
75	139	1, 929		111	664, 396	3, 574, 394
					2, 043	54, 048
3, 444	48	678		1, 707	407, 649	3, 431, 289
6, 941	575	1, 424		10, 338	2, 669, 197	63, 497, 915
1, 836	218	50		643	351, 037	4, 111, 855
				30	153, 711	1, 659, 164
				590	185, 058	567, 305
124				1, 475	5, 801, 624	10, 788, 860
					797, 371	2, 518, 087
					4, 460	4, 460
				1, 427	696, 591	1, 637, 961
					33, 268	33, 268
				20	15, 840	25, 252
				14	1, 995	6, 795
		12, 359		117	3, 759, 120	23, 993, 130
14, 052	4, 082	16, 938	524	16, 612	15, 987, 967	167, 153, 978

(2) Not include the catch by Factory Ship type, Based at foreign ports and Operated in the Atlantic Ocean

(2) Tunas Long Line Fisheries.

	Skipjack	Bluefin tuna	Albacore	Bigeye tuna	Yellowfin tuna	Striped marlin
Hokkaido	222	28, 038	4, 900	10, 252	1, 354	14, 921
Aomori	3	92, 747	1, 490	13, 094	3, 473	13, 251
Iwate	508	341, 460	66, 992	284, 338	60, 773	107, 894
Miyagi	29, 394	610, 140	1, 693, 305	2, 632, 327	760, 797	542, 672
Fukushima	28	7, 367	46, 747	125, 878	9, 603	14, 076
Ibaragi	58, 709	11, 488	1, 606, 713	75, 764	11, 852	15, 420
Chiba	20	295, 563	97, 795	223, 114	110, 221	75, 824
Tokyo	304, 075	4, 676, 962	6, 768, 504	32, 477, 367	22, 560, 904	1, 965, 302
Kanagawa	291, 915	9, 871, 711	4, 527, 555	25, 266, 190	19, 040, 613	1, 958, 778
Shizuoka	226, 250	40, 479, 816	14, 087, 054	32, 927, 174	25, 512, 804	1, 984, 831
Aichi	780	16, 896	21, 773	84, 589	246, 996	5, 083
Mie	1, 719	25, 534	122, 380	54, 367	79, 941	9, 228
Wakayama	45, 998	713, 594	1, 186, 314	1, 558, 273	4, 048, 242	404, 827
Tokushima	212	2, 219	120, 141	20, 357	60, 229	4, 827
Kochi	37, 253	235, 662	99, 954	392, 306	819, 947	19, 620
Miyazaki	1, 966	11, 095	18, 052	8, 808	337, 428	20, 615
Yamaguchi		1, 244			360	34
Kagoshima	11	429, 849	1, 072, 686	272, 299	449, 164	185, 847
Osaka	5, 063	331, 851	273, 325	797, 501	2, 138, 048	70, 706
Total	1, 004, 126	58, 183, 236	31, 815, 680	97, 223, 998	76, 252, 749	7, 413, 756

Note; (1) Survey by Statistics and Survey Division, Ministry of Agriculture and Forestry.

(2) Not include the catch by Factory ship type, Based at foreign ports and Operated in the Atlantic Ocean.

(Unit : kg)

Broadbill swordfish	Blue and Black marlin	Great blue shark	Salmon shark	Other sharks	Others	Total
69, 122	2, 209	286, 060	23, 269	4, 897	1, 138	446, 382
168, 054	508	525, 404	730, 194	11, 156	20, 825	1, 580, 199
73, 739	20, 751	474, 729	172, 117	72, 303	55, 282	1, 730, 886
7, 039, 245	257, 225	9, 434, 598	3, 275, 863	934, 371	798, 637	28, 008, 574
258, 085	350	419, 817	14, 017	48, 900	46, 504	991, 372
82, 229		247, 415	88, 872	46, 326	30, 811	2, 275, 599
751, 299	25, 065	1, 568, 651	96, 781	291, 350	107, 983	3, 643, 666
3, 935, 380	7, 559, 447	4, 428, 571	253, 700	2, 747, 599	2, 838, 017	90, 515, 828
650, 887	7, 618, 156	195, 170		1, 812, 570	1, 427, 732	72, 661, 277
1, 082, 636	6, 081, 487	1, 442, 100	24, 215	1, 149, 781	1, 640, 572	126, 638, 720
5, 621	31, 671			20, 565	29, 822	463, 796
10, 735	6, 541	11, 876	110	43, 138	37, 189	402, 758
195, 716	574, 718	742, 485		324, 104	216, 985	10, 011, 256
9, 408	2, 905		100	24, 977	9, 465	254, 840
25, 038	109, 517	62, 829		110, 437	205, 550	2, 118, 113
3, 562	4, 817	3, 175		40, 837	177, 500	627, 855
53	289			40	130	2, 150
121, 622	214, 334	384, 671	675, 930	675, 930	339, 531	4, 152, 459
84, 353	371, 946	108, 815	171, 338	171, 338	180, 505	4, 533, 451
14, 566, 784	22, 881, 936	20, 336, 366	4, 685, 753	8, 530, 619	8, 164, 178	351, 059, 181

(3) Counted in the prefecture landed.

Table 8.

Yearly Operative Situation, by Size Category, in Tunas Long Line Fiaheries.

(1) Number of actual fishing vessels operated.

	20—30T	30—50T	50—100T	100—200T	200—500T	500T—
1955	374		567	371	142	—
1956	86	244	618	371	153	23
1957	53	194	653	365	177	33
1958	51	267	641	351	204	35
1959	46	319	687	330	230	29
1960	40	528	671	298	278	27
1961	20	665	606	238	377	29

(2) Number of trips.

1955	4, 270		3, 168	1, 120	470	—
1956	1, 027	2, 561	3, 624	1, 322	553	26
1957	784	1, 861	4, 011	1, 377	606	42
1958	717	1, 979	4, 364	1, 127	657	46
1959	609	2, 585	4, 256	1, 205	728	37
1960	625	3, 658	4, 215	1, 192	818	35
1961	281	4, 971	3, 370	843	1, 014	30

(3) Number of average trips per vessel in a year.

1955	11. 4		5. 6	3. 0	3. 3	
1956	11. 9	10. 5	5. 9	3. 6	3. 6	1. 1
1957	14. 8	9. 6	6. 1	3. 8	3. 4	1. 3
1958	14. 1	7. 4	6. 8	3. 2	3. 2	1. 3
1959	13. 2	8. 1	6. 2	3. 7	3. 2	1. 3
1960	15. 6	6. 9	6. 3	4. 0	2. 9	1. 3
1961	14. 1	7. 5	5. 6	3. 5	2. 7	1. 0

Ncte; (1) Survey by Statistics and Survey Division, Ministry of Agriculture and Forestry.

(4) Total catch. (Unit : M/T)

	20—30T	30—50T	50—100T	100—200T	200—500T	500T—
1955	19, 568		46, 804	43, 519	64, 298	
1956	3, 488	14, 310	53, 674	52, 095	76, 774	10, 504
1957	3, 180	12, 728	61, 748	56, 123	87, 484	15, 720
1958	2, 900	14, 144	71, 703	52, 497	92, 291	23, 147
1959	2, 343	19, 743	78, 522	54, 287	110, 544	24, 734
1960	2, 482	32, 140	80, 110	54, 692	130, 554	19, 382
1961	1, 452	47, 221	73, 258	41, 207	170, 492	15, 471

(5) Average catch per vessel in a year. (Unit : kg)

1955	52, 320		82, 545	117, 300	452, 798	
1956	40, 558	58, 648	86, 851	140, 418	501, 791	456, 696
1957	60, 064	65, 618	94, 560	153, 769	497, 081	476, 378
1958	56, 873	52, 975	111, 862	149, 566	452, 410	661, 359
1959	50, 935	61, 893	114, 297	164, 507	480, 628	852, 929
1960	62, 072	60, 872	119, 390	183, 533	469, 621	717, 868
1961	72, 647	71, 009	120, 888	173, 140	452, 233	535, 483

(6) Average catch per trip in a year. (Unit : kg)

1955	4, 583		14, 775	38, 876	136, 804	—
1956	3, 396	5, 588	14, 811	39, 406	138, 832	404, 000
1957	4, 061	6, 840	15, 394	40, 759	144, 368	374, 299
1958	4, 045	7, 147	16, 431	46, 582	140, 474	503, 208
1959	3, 847	7, 638	18, 450	45, 052	151, 847	668, 512
1960	3, 973	8, 786	19, 006	45, 883	159, 602	553, 784
1961	5, 167	9, 499	21, 738	48, 881	167, 091	515, 700

(2) Not include the catch by Factory ship type, Based at foreign ports and Operated in the Atlantic Ocean.

Table 9.

Yearly Operative Situation, by Size Category, in Skipjack Pole and Line Fisheries.

(1) Number of actual fishing vessels operated.

	20—30T	30—50T	50—100T	100—200T	200—500T	500T—
1955	162		260	279	14	—
1956	61	85	238	285	18	—
1957	21	80	225	277	18	—
1958	19	68	239	273	24	—
1959	18	80	234	262	26	—
1960	11	98	179	229	28	—
1961	19	122	132	178	26	—

(2) Number of trips.

1955	4, 834		4, 055	2, 785	34	—
1956	1, 576	2, 127	3, 777	2, 999	56	—
1957	1, 865	2, 441	3, 873	3, 646	97	—
1958	2, 481	2, 634	4, 250	3, 389	144	—
1959	1, 373	2, 623	4, 484	3, 391	144	—
1960	448	3, 068	3, 799	2, 495	137	—
1961	604	3, 939	3, 798	2, 525	155	—

(3) Number of average trips per vessel in a year.

1955	29. 8		15. 6	10. 0	2. 4	—
1956	25. 8	25. 0	15. 9	10. 5	3. 1	—
1957	88. 8	30. 5	17. 2	13. 2	5. 4	—
1958	130. 6	38. 7	17. 8	12. 4	6. 0	—
1959	76. 3	32. 8	19. 2	12. 9	5. 5	—
1960	40. 7	31. 3	21. 2	10. 9	4. 9	—
1961	31. 7	32. 3	28. 8	14. 2	5. 9	—

Note; (1) Survey by Statistics and Survey Division, Ministry of Agriculture and Forestry.

(4) Total catch. (Unit : M/T)

	20—30T	30—50T	50—100T	100—200T	200—500T	500T—
1955	15, 900		42, 705	53, 239	1, 080	—
1956	2, 558	8, 299	47, 078	74, 543	2, 723	—
1957	2, 390	7, 727	43, 480	85, 517	4, 347	—
1958	6, 164	9, 264	47, 208	84, 138	6, 138	—
1959	3, 154	11, 436	50, 295	80, 097	6, 109	—
1960	1, 049	10, 887	32, 851	43, 175	4, 254	—
1961	1, 310	18, 781	41, 555	71, 303	7, 238	—

(5) Average catch per vessel in a year. (Unit : kg)

1955	98, 149		164, 250	190, 821	77, 142	—
1956	41, 934	97, 635	197, 807	261, 554	151, 278	—
1957	113, 813	96, 588	193, 248	308, 726	241, 510	—
1958	324, 430	136, 242	197, 525	308, 200	255, 763	—
1959	175, 270	142, 958	214, 937	305, 715	234, 962	—
1960	95, 417	111, 096	183, 527	188, 538	151, 952	—
1961	68, 953	153, 947	314, 813	400, 579	278, 392	—

(6) Average catch per trip in a year. (Unit : kg)

1955	3, 289		10, 530	19, 168	31, 851	—
1956	1, 623	3, 902	12, 464	24, 856	48, 625	—
1957	1, 283	3, 165	11, 228	23, 456	44, 816	—
1958	2, 485	3, 517	11, 108	24, 827	42, 627	—
1959	2, 298	4, 360	11, 217	23, 621	42, 424	—
1960	2, 343	3, 549	8, 647	17, 305	31, 056	—
1961	2, 169	4, 768	10, 941	28, 238	46, 698	—

(2) Not include the catch by Factory ship type, Based at foreign ports and Operated in the Atlantic Ocean.

Table 10.

Tuna Long Line Fisheries by Vessels operated in the Atlantic Ocean, 1961.

(Unit : kg)

Base	Europe			Africa			
	Italy	Yugoslavia	Hamburg	Free Town	Dakar	Las Palmas	Monrovia
Number of Actual vessel	43	16	1	31	25	9	9
Number of landings	51	17	1	51	27	10	9
Total catch	19, 085, 179	6, 648, 822	445, 531	16, 020, 129	10, 752, 924	3, 538, 107	2, 828, 043
Albacore	671, 673	914, 618	5, 685	3, 804, 087	1, 426, 413	49, 254	25, 104
Yellowfin tuna	14, 891, 460	3, 665, 665	326, 654	9, 580, 994	5, 573, 561	2, 854, 697	2, 577, 577
Bigeye tuna	2, 783, 684	1, 851, 306	113, 192	1, 168, 734	3, 164, 568	466, 903	54, 471
Marlins	316, 283	72, 633	—	1, 139, 645	405, 845	157, 904	136, 471
Others	422, 079	144, 600	—	326, 669	182, 537	9, 349	34, 420

(Unit : kg)

Base	Africa					Central and South America	
	Lagos	Livia	Tema	Tunisia	Israel	British Trinidad	Brazil
Number of actual vessel	3	4	2	3	1	19	6
Number of landings	3	—	2	—	1	27	33
Total catch	775, 102	597, 497	432, 104	356, 363	330, 500	9, 927, 818	4, 669, 423
Albacore	6, 845	24, 424	98, 709	—	4, 000	1, 542, 941	1, 315, 352
Yellowfin tuna	737, 020	525, 372	196, 762	87, 039	272, 100	7, 194, 194	1, 324, 370
Bigeye tuna	20, 085	22, 605	81, 471	269, 324	41, 200	274, 029	247, 040
Marlins	6, 820	—	46, 288	—	13, 200	575, 124	667, 841
Others	4, 332	25, 096	8, 874	—	—	341, 530	1, 114, 820

(Unit : kg)

Base	Central and South America					Total
	Panama	Argentine	Cuba	Uruguay	Colombia	
Number of actual vessel	9	3	2	1	1	188
Number of landings	12	5	3	5	1	258
Total catch	2, 942, 522	1, 278, 282	905, 530	527, 584	190, 000	82, 251, 460
Albacore	1, 222, 930	574, 278	16, 285	42, 458	74, 630	11, 819, 686
Yellowfin tuna	1, 444, 263	311, 068	826, 802	168, 862	72, 545	52, 631, 005
Bigeye tuna	25, 369	181, 348	23, 650	241, 596	—	11, 030, 575
Marlins	249, 960	194, 420	38, 793	44, 827	42, 825	4, 108, 879
Others	—	17, 168	—	29, 841	—	2, 661, 315

Note ; (1) Survey by Second Ocean Section, Fisheries Agency.
(2) Some of catch landed at more than two ports during one trip are counted in one port.
(3) Include quantity carried to Japan by co-operative transportation system.

Table 11.

Tuna Long Line Fisheries by Vessels based at Foreign Ports, 1961.

(Unit : kg)

Base	Pacific Ocean			Indian Ocean		
	Samoa	Santo	Total	Malaya	Ceylon	Total
Number of actual vessels	52	17	69	8	10	18
Number of landings	247	107	354	21	24	45
Total catch	10, 631, 549	4, 117, 905	14, 749, 454	1, 189, 606	1, 358, 650	2, 548, 256
Albacore	8, 758, 701	2, 467, 602	11, 226, 303	43, 209	36, 394	79, 603
Yellowfin tuna	1, 107, 457	1, 092, 495	2, 199, 952	611, 169	611, 984	1, 223, 153
Bigeye tuna	208, 874	186, 933	395, 807	388, 590	426, 656	815, 246
Marlins	535, 615	354, 493	890, 108	132, 223	169, 950	302, 173
Others	20, 902	16, 382	37, 284	14, 415	113, 666	128, 081

Note ; Survey by Second Ocean Section, Fisheries Agency.

Table 12.

Tuna Long Line Fisheries by Factory ship Type, 1957—1961.

(Unit : kg)

	1957	1958	1959	1960	1961
Number of trips	3	3	4	5	5
Factory ship Number of ships	3	3	4	5	5
Total tonnage	18, 212	14, 332	27, 102	30, 835	31, 096
Catcher boat Number of boats	96	88	162	215	209
Total tonnage	11, 564	10, 682	18, 342	23, 896	24, 132
Average tonnage	120	121	113	111	115
Operation days	318	290	348	414	522
Total catch	14, 105, 828	14, 384, 423	20, 688, 395	24, 002, 823	28, 932, 190
Catch per boat	146, 936	163, 459	127, 706	111, 641	138, 432
Skipjack	42, 356	41, 554	77, 824	60, 231	118, 743
Bluefin tuna	5, 100	4, 358	6, 596, 220	594, 988	369, 654
Albacore	3, 125, 906	4, 096, 039	5, 554, 735	7, 971, 405	12, 139, 879
Bigeye tuna	1, 854, 225	1, 910, 940	1, 364, 460	1, 709, 805	1, 996, 306
Yallowfin tuna	5, 153, 516	4, 656, 878	2, 920, 336	8, 587, 915	7, 032, 538
Striped marlin	393, 566	806, 404	754, 766	760, 740	1, 542, 734
Broadbill swordfish	111, 619	199, 219	281, 320	247, 276	388, 051
Blue marlin	1, 509, 840	878, 858	698, 576	1, 333, 389	1, 802, 708
Black marlin	146, 786	115, 256	114, 066	202, 235	277, 692
Sharks	1, 374, 859	1, 225, 751	1, 812, 557	1, 838, 735	2, 167, 254
Sail fish	246, 323	208, 552	193, 308	313, 651	504, 170
Others	141, 732	240, 614	320, 227	382, 453	592, 461

Note ; Survey by Second Ocean Section, Fisheries Agency.

Table 13.

Tuna Long Line Fisheries by Factory Ship Type, 1961.

(Unit : kg)

Name of company	Taiyo Gyogyo	Taiyo Gyogyo	Taiyo Gyogyo	Nihon Suisan	Hokkaido Gyogyo Kosha
Factory ship Name	No. 3 Tenyo–maru	Koyo-maru	No. 3 Tenyo-maru	Nojima-maru	Jinyo-maru
Tonnage	3, 710. 59	7, 653. 53	3, 710. 59	8, 815. 02	7, 207. 13
Catcher boat Number of boats	40	35	49	49	36
Tonnage	4, 825. 99	4, 429. 85	5, 280. 11	6, 245. 71	3, 350. 34
Average tonnage	121	127	108	127	93
Days out	36. 4. 20～ 36. 9. 7	36. 8. 10～ 36. 11. 27	36. 11. 3～ 37. 4. 5	36. 5. 14～ 36. 10. 6	36. 8. 11～ 36. 11. 27
Operation period	36. 5. 6～ 36. 8. 23	36. 8. 25～ 36. 11. 13	36. 11. 20～ 37. 3. 24	36. 10. 6～ 36. 9. 23	36. 8. 25～ 36. 11. 15
Opeation days	110	81	125	123	83
Total catch	6, 541, 780	4, 515, 000	6, 524, 965	8, 267, 550	3, 082, 895
Catch per boat	163, 545	129, 000	133, 163	168, 726	85, 636
Skipjack	48, 952	9, 199	14, 274	35, 714	10, 602
Bluefin tuna	13, 417	112, 838	1, 219	234, 893	7, 287
Albacore	2, 867, 805	1, 987, 060	2, 777, 970	3, 416, 491	1, 090, 553
Bigeye tuna	414, 306	364, 596	277, 597	609, 590	330, 217
Yellowfin tuna	1, 974, 291	486, 346	1, 297, 698	2, 418, 404	855, 799
Striped marlin	156, 578	623, 263	388, 526	311, 377	62, 990
Broadbill swordfish	62, 860	107, 058	85, 745	103, 375	29, 013
Blue marlin	369, 263	113, 854	704, 778	362, 798	252, 015
Black marlin	50, 282	25, 917	65, 802	63, 797	71, 894
Sharks	422, 599	489, 005	491, 700	528, 296	235, 654
Sail fish	85, 659	53, 009	204, 838	82, 770	77, 894
Others	75, 766	142, 855	214, 818	100, 045	58, 977

Note ; (1) Survey by Second Ocean Section, Fisheries Agency.

(2) Australian tuna is counted in Bluefin tuna.

Table 14.

Tuna Long Line Fisheries by Factory Ship Type (Using loaded skiffs there on)

(Unit : kg)

Factory ship Number of ships	4
Total tonnage	5, 555. 64
Number of skiffs	14
Number of trips	4
Catch	4, 675, 806
Skipjack	240
Bluefin tuna	675
Albacore	1, 779, 323
Bigeye tuna	428, 109
Yellowfin tuna	1, 951, 707
Striped marlin	60, 867
Broadbill swordfish	73, 560
Blue marlin	96, 693
Black marlin	82, 803
Sharks	152, 990
Sail fish	28, 599
Others	20, 240

Note ; (1) Survey by Second Ocean Section, Fisheries Agency.

(2) Landed at the Japanese ports between Oct. 1-Dec. 31.

Table 15.

Japanese Total Export Amount, Fisheries Products Export Amount and Skipjack and Tunas Export Amount, 1961.

(Unit : Million Dollar)

Year	Total export amount (A)	Fisheries products amount (B)	Skipjack and tunas export amount (C)	B/A×100	C/B×100
1957	2, 858	166	46	5. 8	28. 1
1958	2, 876	221	55	7. 7	25. 0
1959	3, 456	233	63	6. 8	27. 2
1960	4, 054	233	66	5. 8	28. 2
1961	4, 235	228	76	5. 4	33. 2

Note ; (1) From "Fisheries Trade Statistics", Fisheries Section, Fisheries Agency. (Statistics of Approval of Export)

(2) Skipjack and tunas export amount means total export amount of Frozen tunas, Frozen marlins and Canned tunas.

Table 16.

Quantity of Fisheries Products mainly used Skipjack and Tunas as important Raw Material Fish, 1957—1961.

		1957	1958	1959	1960	1961
KATSUO-BUSHI 1)	M/T	18, 734	18, 766	20, 629	14, 317	18, 433
KATSUO-BUSHI		8, 462	8, 580	9, 433	6, 348	9, 235
NAMARI-BUSHI		10, 272	10, 186	11, 196	7, 969	9, 198
Skipjack and tunas canned 2)	1, 000 case	5, 256	5, 478	6, 342	5, 955	6, 619
Brine		1, 921	2, 264	2, 871	2, 117	2, 425
Oil		1, 138	1, 187	1, 746	1, 172	1, 458
Others		2, 197	2, 027	1, 725	2, 666	2, 736
Fish sausage 3)	M/T	38, 217	49, 190	64, 697	85, 442	101, 907
Ham		7, 944	8, 474	12, 324	17, 533	25, 899
Sausage		30, 273	40, 716	52, 373	67, 909	76, 008
Fish sausage 1)	M/T	35, 895	59, 605	71, 516	101, 438	123, 681
Frozen skipjack and tunas 1)	M/T	53, 717	59, 698	69, 108	90, 349	110, 635
Tunas		43, 651	37, 515	43, 539	72, 688	84, 896
Skipjack		1, 957	11, 405	13, 847	1, 378	8, 559
Marlins		8, 109	10, 778	11, 722	16, 283	17, 180
KATSUO-BUSHI 1)	Index (1957=100)	100	100	110	76	98
Canned skipjack and tunas 2)		100	104	121	113	126
Fish sausage 1)		100	166	199	283	345
Fish sausage 3)		100	129	169	224	267
Frozen skipjack and tunas 1)		100	111	129	168	206

Note ; Basic data : (1) Survey by Statistics and Survey Division. (Fish sausage includes fish ham.)
(2) Survey by Japan Canned Food Association. (Standard unit)
(3) Survey by National Fish Sausage Association.

Table 17.

Canned Skipjack and Tunas Export, 1958—1961.

Item	Year	Quantity C/S	Unit price $	Amount $
Albacore in oil	1958	242, 972	6. 99	1, 699, 225
	1959	268, 454	8. 23	2, 209, 237
	1960	337, 640	8. 01	2, 705, 487
	1961	289, 653	8. 06	2, 336, 014
Other tunas in oil	1958	313, 505	6. 11	1, 914, 225
	1959	424, 584	6. 16	2, 614, 653
	1960	836, 200	6. 17	5, 160, 948
	1961	949, 631	6. 77	6, 430, 892
Skipjack in oil	1958	315, 779	6. 62	2, 091, 028
	1959	668, 039	6. 07	4, 053, 723
	1960	166, 629	6. 33	1, 054, 528
	1961	195, 073	7. 30	1, 424, 928
(Subtotal)	1958	872, 256	6. 54	5, 704, 478
	1959	1, 361, 077	6. 52	8, 877, 613
	1960	1, 340, 469	6. 66	8, 921, 263
	1961	1, 434, 357	7. 11	10, 191, 834
Albacore in brine	1958	1, 312, 265	8. 59	11, 266, 667
	1959	1, 004, 824	10. 25	10, 296, 845
	1960	976, 711	9. 50	9, 273, 875
	1961	1, 690, 886	9. 07	15, 331, 056
Other tunas in brine	1958	67, 624	7. 40	500, 400
	1959	29, 481	7. 44	219, 300
	1960	31, 179	7. 08	220, 742
	1961	136, 056	7. 42	1, 009, 048
Skipjack in brine	1958	732, 290	7. 43	5, 443, 269
	1959	1, 028, 941	7. 21	7, 420, 023
	1960	1, 025, 684	6. 73	6, 902, 012
	1961	378, 105	7. 49	2, 831, 919
(Subtotal)	1958	2, 112, 179	8. 15	17, 210, 336
	1959	2, 063, 246	8. 69	17, 936, 168
	1960	2, 033, 574	8. 06	16, 396, 629
	1961	2, 205, 047	8. 69	19, 172, 023
Others	1958	58, 984	5. 97	351, 992
	1959	20, 909	5. 87	122, 706
	1960	11, 718	4. 04	59, 042
	1961	61, 725	5. 99	369, 942
Grand total	1958	3, 043, 419	7. 64	23, 266, 806
	1959	3, 445, 232	7. 82	26, 936, 487
	1960	3, 385, 761	7. 50	25, 376, 934
	1961	3, 701, 129	8. 03	29, 733, 799

Note ; From "Statistics of Approval of Export."

Table 18.

Frozen Skipjack and Tunas Export, 1957—1961.

Item	year	Quantity S/T	Unit price $	Amount $
Albacore	1957	39, 958	285	11, 906, 622
	1958	34, 453	290	9, 983, 372
	1959	39, 020	299	11, 655, 711
	1960	49, 807	277	13, 804, 194
	1961	49, 749	303	15, 077, 506
yellowfin tuna	1957	33, 508	231	7, 737, 047
	1958	61, 010	248	15, 119, 717
	1959	90, 535	224	20, 242, 692
	1960	88, 001	226	19, 851, 967
	1961	84, 173	244	20, 559, 517
Bluefin tuna	1957	331	216	71, 561
	1958	95	232	22, 022
	1959	48	235	11, 258
	1960	434	201	87, 411
	1961	862	237	204, 494
Other tunas	1957	907	199	180, 700
	1958	6, 119	233	1, 425, 397
	1959	3, 241	195	632, 675
	1960	7, 117	220	1, 565, 689
	1961	15, 771	225	3, 543, 181
Skipjack	1957	18	222	4, 003
	1958	2, 694	195	524, 883
	1959	1, 239	167	206, 614
	1960	147	199	29, 211
	1961	1, 469	149	218, 564
Other skipjacks	1957	13	238	3, 100
	1958	9	581	5, 233
	1959	5	858	4, 289
	1960	20	446	8, 928
	1961	51	338	17, 236
(Tunas total)	1957	74, 735	260	19, 403, 033
	1958	104, 380	259	27, 080, 624
	1959	134, 088	244	32, 753, 239
	1960	145, 526	243	35, 347, 400
	1961	652, 075	261	39, 620, 498
Broadbill swordfish	1957	5, 990	697	4, 176, 144
	1958	6, 953	658	4, 578, 006
	1959	6, 629	542	3, 590, 364
	1960	7, 723	648	5, 003, 306
	1961	8, 677	712	6, 176, 681
Other marlins	1957	1, 041	323	336, 214
	1958	1, 213	275	333, 317
	1959	1, 089	273	297, 144
	1960	1, 082	307	332, 461
	1961	1, 933	244	472, 231
(Marlins total)	1957	7, 031	642	4, 512, 358
	1958	8, 166	601	4, 911, 323
	1959	7, 718	504	3, 887, 508
	1960	8, 805	606	5, 335, 767
	1961	10, 610	627	6, 648, 912
Frozen total	1957	81, 766	292	23, 915, 391
	1958	112, 546	284	31, 991, 947
	1959	141, 806	258	36, 640, 747
	1960	154, 331	264	40, 683, 167
	1961	162, 685	284	46, 269, 410

Table 19.

Quantity and Amount of Exports of Skipjack and Tunas by the Country of Destination, 1961.

Country	Frozen		Canned		Total amount $	%
	Quantity S/T	Amount $	Quantity C/S	Amount $		
U. S. A.	81, 818	27, 696, 369	2, 204, 543	19, 170, 184	46, 866, 553	61. 7
Italy	28, 797	6, 319, 763	4, 408	31, 431	6, 351, 194	8. 4
West Germany	1	317	606, 129	3, 986, 412	3, 986, 729	5. 2
Samoa	11, 549	2, 906, 847	—	—	2, 906, 847	3. 8
Yugoslavia	10, 231	2, 337, 732	—	—	2, 337, 732	3. 1
Canada	1, 189	400, 795	180, 631	1, 531, 251	1, 932, 046	2. 5
Puerto Rico	7, 391	1, 851, 347	—	—	1, 851, 347	2. 4
Switzerland	10	7, 289	123, 803	917, 275	924, 564	1. 2
Hawaii	2, 005	765, 177	1, 957	14, 705	779, 882	1. 0
New Hebrides	4, 387	669, 767	—	—	669, 767	0. 9
Argentina	3, 304	601, 062	—	—	601, 062	0. 8
Brazil	2, 455	489, 908	—	—	489, 908	0. 6
Belgium	6	3, 327	60, 755	433, 607	436, 934	0. 6
Holland	—	—	63, 359	424, 331	424, 331	0. 6
Czecho Slovakia	1, 769	389, 920	—	—	389, 920	0. 5
Kuwait	—	—	53, 812	364, 858	364, 858	0. 5
The United Arab Syria	—	—	53, 160	351, 827	351, 827	0. 5
Saudi Arabia	—	—	46, 110	322, 786	322, 786	0. 4
Great Britain	—	—	36, 620	300, 067	300, 067	0. 4
Others	7, 773	1, 829, 790	265, 842	1, 885, 064	3, 714, 854	4. 9
Total	162, 685	46, 269, 410	3, 701, 129	29, 733, 798	76, 003, 208	100. 0

Note ; Survey by Fisheries Section, Fisheries Agency.

These ccuntries are more than 300 thousand Dollar in the amount of either frozen or canned export.

Frozen food includes frozen marlins.

Table 20.

Quantity and Price of Skipjack and Tunas at Two Major Markets, 1961.

Species	Tokyo			Yaizu		
	Quantity (kg)	Unit price	Amount (Yen)	Quantity (kg)	Unit price	Amount (Yen)
Bluefin tuna	8, 583, 464	318	2, 727, 333, 927	777, 210	282	219, 449, 490
Bigeye tuna	28, 266, 544	137	3, 865, 635, 445	12, 930, 032	92	1, 191, 254, 139
Yellowfin tuna	20, 444, 939	124	2, 534, 509, 632	12, 577, 919	108	1, 363, 772, 672
Albacore	4, 695, 454	106	497, 520, 279	16, 518, 908	115	1, 897, 813, 684
Young tuna	2, 074, 845	164	340, 667, 891	336, 732	130	43, 858, 639
Indian tuna	6, 767, 442	129	875, 253, 132	30, 615, 774	94	2, 889, 650, 178
Striped marlin	3, 121, 949	205	640, 203, 080	911, 597	156	142, 280, 582
Broadbill swordfish	4, 407, 886	138	609, 261, 878	563, 455	138	77, 573, 991
Blue marlin	5, 944, 956	139	827, 438, 175	2, 521, 104	156	392, 870, 609
Black marlin	572, 455	130	74, 307, 453	1, 063, 121	128	136, 105, 070
Skipjack	8, 329, 632	101	838, 226, 776	27, 326, 376	78	2, 128, 678, 374
Sharks	15, 984, 744	51	815, 518, 783	101, 904	65	6, 639, 792
Total	109, 194, 310	134	14, 645, 876, 451	106, 244, 132	99	10, 489, 947, 220

Note ; Survey by Tokyo Central Market and by Fish Market of Yaizu Fisheries Co-operative Association.

Table 21.

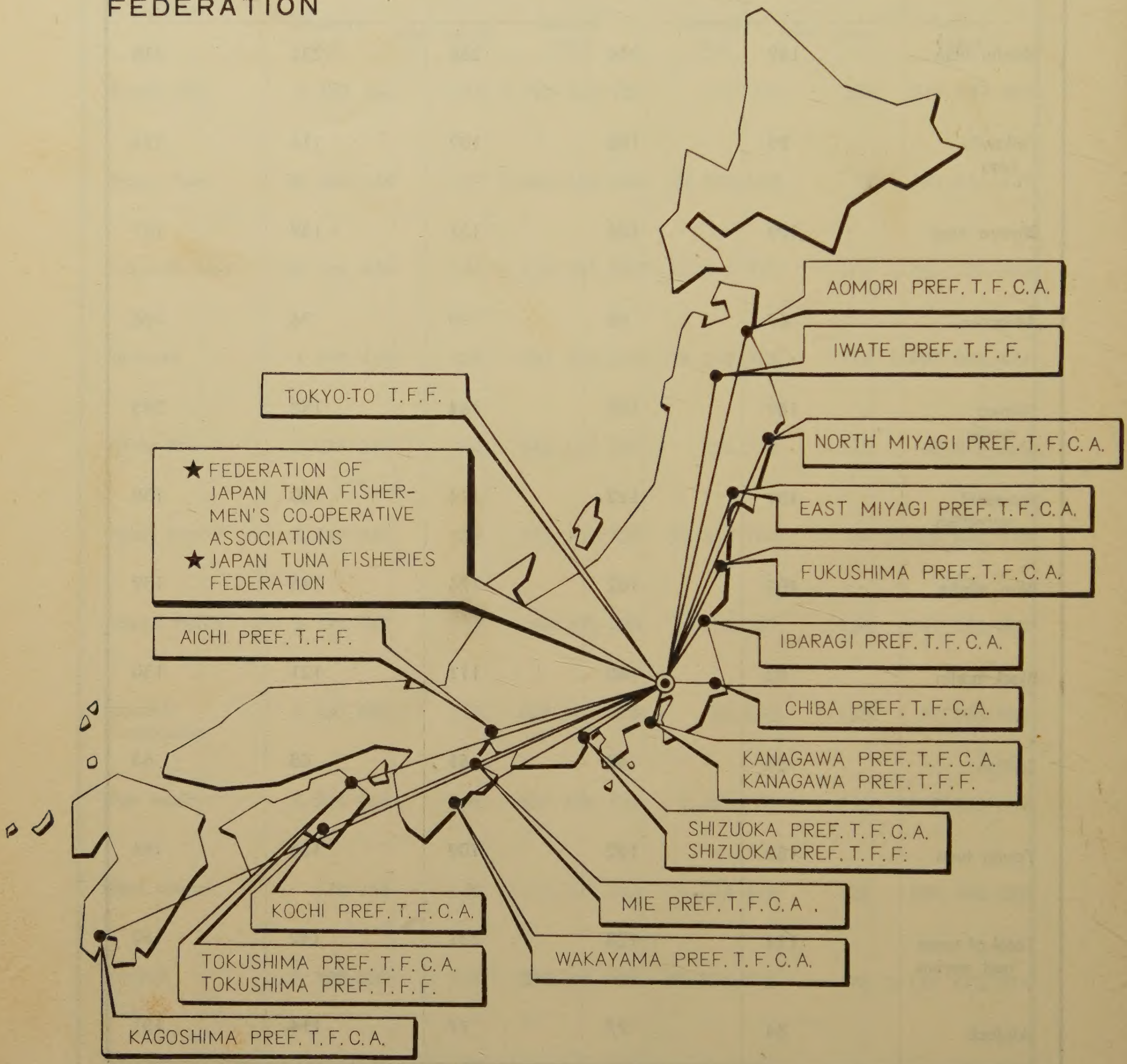
Yearly Average Market Price at Tokyo.

(Yen per kg)

	1957	1958	1959	1960	1961
Bluefin tuna	169	244	256	232	318
Yellowfin tuna	95	105	109	116	124
Bigeye tuna	120	126	127	139	137
Albacore	67	88	98	96	106
Striped marlin	189	160	164	188	205
Broadbill swordfish	131	122	114	130	138
Blue marlin	105	102	126	145	139
Black marlin	93	100	111	121	130
Sailfish	53	48	51	68	65
Young tuna	136	122	109	138	164
Total of tunas and marlins	114	123	131	142	152
Skipjack	84	77	77	114	101

Note ; Survey by Tokyo Central Market.

OUTLINE OF ORGANIZATION OF JAPAN TUNA FISHERMEN'S CO-OPERATIVE ASSOCIATIONS & JAPAN TUNA FISHERIES FEDERATION



(NOTE) T. F. F. = TUNA FISHERIES FEDERATION
T. F. C. A. = TUNA FISHERMEN'S CO-OPERATIVE ASSOCIATION

かつおとまぐろ (KATSUO TO MAGURO) — 1961 EDITION

- EDITED AND PUBLISHED BY JAPAN TUNA FISHERMEN'S CO-OPERATIVE ASSOCIATIONS & JAPAN TUNA FISHERIES FEDERATION
- 2-7, HIRAKAWA-CHO, CHIYODA-KU, TOKYO, JAPAN (TEL, 331-5561 / 5)
- MARCH 1963

Federation of Japan Tuna Fishermen's Co-operative Associations

Japan Tuna Fisheries Federation